

#7.

Hawaiian Explorations.

D^c.3928 - D^c.3945.

Hy.4187 - Hy.4214.

May 12th - 19th, 1902.

Next No.
Hy. 4187
N 3928

$$\begin{array}{r}
 4866 - 262 \\
 \underline{700} \quad 189 \\
 4166 \quad 73
 \end{array}
 \qquad
 \begin{array}{r}
 262 \\
 \underline{191} \\
 71
 \end{array}$$

706-808

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Autoluvu

P.L. 35.9

No. *H4* 4187 Date *May 12-02*
Sigsbee Machine. #1 Reel. *Ham*
Turns *2385* Cor. + *191* Depth *2,576 fms*
Shot or lead *60 lbs.*
Bottom *br. m.*
Bottom temperature *35.0*
No. of thermometer *98233* Cor. *+0.1*
Corrected temperature *35.1*
Air *73* Surface *75* Drift
Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-15.30</i>	<i>3-27.10</i>	0		
<i>16.30</i>	<i>25.55</i>	100		
<i>17.20</i>	<i>24.35</i>	200		
<i>18.10</i>	<i>23.25</i>	300		
<i>19 =</i>	<i>22.10</i>	400		
<i>19.55</i>	<i>21.00</i>	500		
<i>20.50</i>	<i>19.55</i>	600		
<i>21.50</i>	<i>18.50</i>	700		
<i>22.55</i>	<i>17.45</i>	800		
<i>24 =</i>	<i>16.40</i>	900		
<i>25.05</i>	<i>15.15</i>	1000		
<i>26.15</i>	<i>14.50</i>	1100		
<i>27.15</i>	<i>13.25</i>	1200		
<i>28.25</i>	<i>3-00.55</i>	1300		
<i>29.40</i>	<i>59.25</i>	1400		
<i>30.50</i>	<i>57.55</i>	1500		
<i>32 =</i>	<i>56.25</i>	1600		
<i>33.10</i>	<i>55.05</i>	1700		
<i>34.25</i>	<i>53.40</i>	1800		
<i>35.40</i>	<i>52.20</i>	1900		
<i>37 =</i>	<i>50.55</i>	2000		
<i>38.20</i>	<i>49.30</i>	2100		
<i>39.45</i>	<i>47.55</i>	2200		
<i>41.05</i>	<i>46.25</i>	2300		
<i>42.30</i>	<i>2-45 =</i>	<i>2385</i>		

210 46' N 162° 40' W.

OK
HOB
M

4600
2380

246
55

2215

191
2385
2576

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Stopped heaving in when 300 fms reached; several turns slack run on reel caused by placing all run on side of reel. Turned out to 330 fms.

Wiley *P. 2. 185. 9*
 No. *4188* Hy Date *12 May 1902*
Super Machine. / Reel. *1004*

Turns *2397* Cor. + *192* Depth *2,589 fms*
 Shot or lead *60#*

Bottom *br. M. 250*
 Bottom temperature

No. of thermometer *98233* Cor. *+0.1*

Corrected temperature *35.1*

Air *77* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10:01:30</i>	<i>11.01.30</i>	0		
<i>03.30</i>	<i>11.00.20</i>	100		
<i>04.10</i>	<i>59.10</i>	200		
<i>04.55</i>	<i>58.05</i>	300		
<i>05.50</i>	<i>57.00</i>	400		
<i>06.45</i>	<i>55.45</i>	500		
<i>07.40</i>	<i>54.30</i>	600		
<i>08.40</i>	<i>53.20</i>	700		
<i>09.55</i>	<i>52.05</i>	800		
<i>10.55</i>	<i>50.50</i>	900		
<i>12.00</i>	<i>49.30</i>	1000		
<i>13.00</i>	<i>48.10</i>	1100		
<i>14.20</i>	<i>47.10</i>	1200		
<i>15.40</i>	<i>45.55</i>	1300		
<i>16.50</i>	<i>44.45</i>	1400		
<i>18.00</i>	<i>43.20</i>	1500		
<i>19.15</i>	<i>42.10</i>	1600		
<i>20.20</i>	<i>40.50</i>	1700		
<i>21.40</i>	<i>39.30</i>	1800		
<i>22.45</i>	<i>38.10</i>	1900		
<i>24.10</i>	<i>36.50</i>	2000		
<i>25.30</i>	<i>35.30</i>	2100		
<i>26.40</i>	<i>34.00</i>	2200		
<i>28.00</i>	<i>32.30</i>	2300		
<i>10.29.30</i>	<i>10.31.00</i>	<i>2397</i>		

22005' N. 163030' W.

57
JCH

4600 246
2397 54
2203 192
2397
2589

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. = 35.9

507

No. *53928*. Date *12 May '02*.
Crosby Machine *#1* Reel *Navy*.

Turns *2346* Cor. + *189* Depth *2535 fms.*

Shot or lead *60 Lbs.*

Bottom *br. M.*

Bottom temperature *36.6*

No. of thermometer *98233*. Cor. *+0.1*

Corrected temperature *36.7* { *Drift*

Air *74*. Surface *76*. Drift

Trawl or dredge *Surface Net*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>5.22.35</i>	<i>6.19.00</i>	<i>0</i>	<i>Surface Net.</i>
<i>23.55</i>	<i>17.50</i>	<i>100</i>	<i>6.32 p. 6.43 p.</i>
<i>24.50</i>	<i>16.40</i>	<i>200</i>	<i>.46 " = .56 "</i>
<i>25.40</i>	<i>15.30</i>	<i>300</i>	<i>.58 " = 7.08 "</i>
<i>26.25</i>	<i>14.20</i>	<i>400</i>	<i>7.11 " = .21 "</i>
<i>27.25</i>	<i>13.15</i>	<i>500</i>	<i>.24 " = .34 "</i>
<i>28.25</i>	<i>12.10</i>	<i>600</i>	<i>.38 " = .48 "</i>
<i>29.30</i>	<i>11.00</i>	<i>700</i>	<i>.51 " = 8.01 "</i>
<i>30.35</i>	<i>09.55</i>	<i>800</i>	
<i>31.40</i>	<i>08.45</i>	<i>900</i>	<i>1st Surface haul =</i>
<i>32.45</i>	<i>07.40</i>	<i>1000</i>	<i>Little quantity.</i>
<i>33.50</i>	<i>06.30</i>	<i>1100</i>	<i>many Lucifer; several</i>
<i>34.55</i>	<i>05.20</i>	<i>1200</i>	<i>large blue copepods; small</i>
<i>36.00</i>	<i>04.15</i>	<i>1300</i>	<i>copepods (not large number)</i>
<i>37.10</i>	<i>03.10</i>	<i>1400</i>	<i>few sagitta; few halobates;</i>
<i>38.20</i>	<i>02.05</i>	<i>1500</i>	<i>few macrurus; few</i>
<i>39.30</i>	<i>01.00</i>	<i>1600</i>	<i>sphaerospum; siphono-</i>
<i>40.40</i>	<i>59.50</i>	<i>1700</i>	<i>phore bells; yz diodon?</i>
<i>41.50</i>	<i>58.40</i>	<i>1800</i>	
<i>43.05</i>	<i>57.20</i>	<i>1900</i>	<i>2nd haul: Quantity</i>
<i>44.15</i>	<i>56.00</i>	<i>2000</i>	<i>evidently increased.</i>
<i>45.30</i>	<i>54.25</i>	<i>2100</i>	<i>Tylosurus; medusa;</i>
<i>46.50</i>	<i>53.05</i>	<i>2200</i>	<i>large blue copepods (colonies)</i>
<i>48.15</i>	<i>51.30</i>	<i>2300</i>	<i>smaller pink copepods</i>
<i>5.47.05</i>	<i>5.50.35</i>	<i>2346</i>	<i>Increase due to them;</i>
		<i>2400</i>	<i>"bells"; sagitta; few</i>
			<i>halobates; few mac-</i>
			<i>rurus; pteropods-</i>

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

3^d Surface haul:

Haul quantity about

same, except for large

number of medusae (3

kinds); many pink

copepods; few amphipods,

and several other yg. fishes.

Halobates (as usual);

few stomatopods; few

other crustaceans; 2

kinds pteropods; 6

shrimp.

4th haul = Haul

quantity about same.

Medusae many (2

kinds); many pink

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Clear and cloudy...			Gentle
50	N. E. breeze.			Smooth sea.
100	Copepods; 1 myctophum, and 1 or 2 yg.			
200	fishes; halobates; few stomatopods; 2 kinds			
300	pteropods; aiphsophore bells; 11			
400	calanus.			
500	5 th haul = Haul quantity less. 2 or 3 medusae,			
600	1 heteropod; few copepods; 2 aiphsophores;			
700	11 calanus as before. Pteropods (4 kinds);			
800	calpa; also an occasional one in pre-			
900	vious hauls; few atlanta.			
1000	6 th haul. Almost nothing. 1 medusa			

myctophum; and 1 or 2, few halobates;
 few pteropods; REMARKS: 1 medusa, 10 copepods.
 7th haul = Almost nothing. 1 medusa
 1 myctophum; one flying fish; 2 or 3
 calpa; no copepods; 2 or 3 macrurus.

Cat Log 85.9

No. 4157 Date 13th June 1912

Machine. Reel.

Turns 2390 Cor. + 172 Depth 2582 fm

Shot or lead 60 lb.

Bottom M.

Bottom temperature 35°

No. of thermometer 92253 Cor. + 0.1

Corrected temperature 35°

Air 73 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2-34.25	28.55	0	
26.00	27.40	100	
28.10	26.25	200	
27.10	25.15	300	
26.10	24.05	400	
25.10	22.55	500	
24.10	21.45	600	
23.10	20.35	700	
22.10	19.25	800	
21.10	18.15	900	
20.10	17.05	1000	
19.10	15.55	1100	
18.10	14.45	1200	
17.10	13.35	1300	
16.10	12.25	1400	
15.10	11.15	1500	
14.10	10.05	1600	
13.10	08.55	1700	
12.10	07.45	1800	
11.10	06.35	1900	
10.10	05.25	2000	
09.10	04.15	2100	
08.10	03.05	2200	
07.10	01.55	2300	
06.10	00.45	2400	
05.10	23.35	2500	
04.10	22.25	2600	
03.10	21.15	2700	
02.10	20.05	2800	
01.10	18.55	2900	
00.10	17.45	3000	
23.10	16.35	3100	
22.10	15.25	3200	
21.10	14.15	3300	
20.10	13.05	3400	
19.10	11.55	3500	
18.10	10.45	3600	
17.10	09.35	3700	
16.10	08.25	3800	
15.10	07.15	3900	
14.10	06.05	4000	
13.10	04.55	4100	
12.10	03.45	4200	
11.10	02.35	4300	
10.10	01.25	4400	
09.10	00.15	4500	
08.10	23.05	4600	
07.10	21.55	4700	
06.10	20.45	4800	
05.10	19.35	4900	
04.10	18.25	5000	
03.10	17.15	5100	
02.10	16.05	5200	
01.10	14.55	5300	
00.10	13.45	5400	
23.10	12.35	5500	
22.10	11.25	5600	
21.10	10.15	5700	
20.10	09.05	5800	
19.10	07.55	5900	
18.10	06.45	6000	
17.10	05.35	6100	
16.10	04.25	6200	
15.10	03.15	6300	
14.10	02.05	6400	
13.10	00.55	6500	
12.10	23.45	6600	
11.10	22.35	6700	
10.10	21.25	6800	
09.10	20.15	6900	
08.10	19.05	7000	
07.10	17.55	7100	
06.10	16.45	7200	
05.10	15.35	7300	
04.10	14.25	7400	
03.10	13.15	7500	
02.10	12.05	7600	
01.10	10.55	7700	
00.10	09.45	7800	
23.10	08.35	7900	
22.10	07.25	8000	
21.10	06.15	8100	
20.10	05.05	8200	
19.10	03.55	8300	
18.10	02.45	8400	
17.10	01.35	8500	
16.10	00.25	8600	
15.10	23.15	8700	
14.10	22.05	8800	
13.10	20.55	8900	
12.10	19.45	9000	
11.10	18.35	9100	
10.10	17.25	9200	
09.10	16.15	9300	
08.10	15.05	9400	
07.10	13.55	9500	
06.10	12.45	9600	
05.10	11.35	9700	
04.10	10.25	9800	
03.10	09.15	9900	
02.10	08.05	10000	

22° 37' N. 165° 18' W

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

46
54
192
2890
2542

600
290
2210

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns 2322 Cor. + 188

Depth 2520 fms.

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10 07.10	11.04.25	0
08.10	03.10	100
09.10	01.50	200
10.10	11.00.40	300
11.20	59.25	400
12.10	58.10	500
13.00	57.00	600
14.20	55.50	700
15.20	54.40	800
16.10	53.30	900
17.00	52.15	1000
18.10	50.45	1100
19.00	49.40	1200
20.00	48.30	1300
21.10	47.10	1400
22.25	46.00	1500
23.10	44.40	1600
24.40	43.30	1700
26.00	42.05	1800
27.10	40.40	1900
28.10	39.20	2000
29.40	38.10	2100
31.00	36.45	2200
32.10	35.20	2300
10.22.60	34.00	2400

22154.34. 166°05'W.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
22154.34	3600	58
2268	3700	166
	3800	2337
	3900	2520
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Hy. 4191

Date

13

Machine.

Reel.

Turns 2009 Cor. + 191

Depth 2070

Shot or lead 60.5

Bottom br. M.

Bottom temperature 25.0

No. of thermometer 98233. Cor. +0.1

Corrected temperature 25.1

Air 74. - Surface 75. - Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

50.10	6.05.15	0
51.00	59.00	100
52.00	57.00	200
53.00	55.00	300
54.00	53.00	400
55.00	51.00	500
56.00	49.00	600
57.00	47.00	700
58.00	45.00	800
59.00	43.00	900
60.00	41.00	1000
61.00	39.00	1100
62.00	37.00	1200
63.00	35.00	1300
64.00	33.00	1400
65.00	31.00	1500
66.00	29.00	1600
67.20	27.00	1700
68.10	25.00	1800
69.20	23.00	1900
70.30	21.00	2000
71.40	19.00	2100
72.55	17.00	2200
74.05	15.00	2300
75.20	13.00	2400

5.31.15	5.32.00	2500
5.32.00	5.32.00	2500
		2600
		2700
		2800
		2900
		3000
		3100
		3200
4600	2498	3300
2509	198	3400
2091		3500
		3600
2509		3700
198		3800
2707		3900
		4000

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:
 5.11.20 [illegible]
 20.11.20 [illegible]

No. *39* Date *13 May 1902*

Machine. — Reel. —

Turns — Cor. + — Depth —

Shot or lead —

Bottom —

Bottom temperature —

No. of thermometer —

Cor. —

Corrected temperature —

Air *74* Surface *75* Drift *1763-7*

Trawl or dredge —

Surface Net

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*Surface Net.**6.28.6. 6.41.6.**10*
100*Sea calm, cloudy,**gentle breeze.**6.52.6. 7.02.6.**10*
300*Smooth sea.**7.05.6. 7.15.6.**10*
500*2nd surface haul:**Slightly less ma-**7.18.6. 7.28.6.**10*
700*terial. Sea fairly**open & smooth.**7.31.6. 7.41.6.**10*
900*Some greenish, & few**white; a little of**7.44.6. 7.54.6.**10*
1100*reddish-brown.**Also, a few small**7.57.6. 8.07.6.**10*
1300*black, & a few small**white.**1st Surface haul:**Almost nothing.**2nd Surface haul:**Very little material.**Little white.**Little white.**Little white.**Little white.**Little white.**Little white.**Little white.**Little white.**Little white.*

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*2nd Surface haul:**Much material.**Principally copepods and**other small crustacea.**Minute crustacea; a few marvellous; a**few small; very little amphipods.*

23° 19' N. 166° 54' W.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	51.8			
50				
100				
200				
300				
400				
500				
600				
700				
800	mostly copepods.		5 myctophum;	
900	salpa; medusae;		larval stomatopods.	
1000				

REMARKS:

7th haul - Still less material. A few myctophum.

No. *4195* Date *14 May 02*Machine. *Thompson* Reel. *Thompson*Turns *2540* Cor. + *200* Depth *2740 fms*Shot or lead *60 lbs.*Bottom *M. S.*Bottom temperature *35.1*No. of thermometer *55385* Cor. *+0.1*Corrected temperature *35.1*Air *72* Surface *72* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>3-11-40</i>	<i>18.05</i>	0		
<i>13.55</i>	<i>18.40</i>	100		
<i>15.20</i>	<i>15.25</i>	200		
<i>14.10</i>	<i>15.55</i>	300		
<i>15.35</i>	<i>12.55</i>	400		
<i>15.55</i>	<i>11.35</i>	500		
<i>16.55</i>	<i>10.10</i>	600		
<i>17.55</i>	<i>9.45</i>	700		
<i>18.45</i>	<i>8.55</i>	800		
<i>19.40</i>	<i>8.05</i>	900		
<i>20.40</i>	<i>04.25</i>	1000		
<i>21.40</i>	<i>03.45</i>	1100		
<i>22.40</i>	<i>01.40</i>	1200		
<i>23.45</i>	<i>3-31.30</i>	1300		
<i>24.55</i>	<i>59.15</i>	1400		
<i>25.35</i>	<i>57.45</i>	1500		
<i>27.05</i>	<i>56.25</i>	1600		
<i>28.10</i>	<i>55.05</i>	1700		
<i>29.20</i>	<i>53.40</i>	1800		
<i>30.30</i>	<i>52.10</i>	1900		
<i>31.45</i>	<i>50.40</i>	2000		
<i>33 =</i>	<i>49.15</i>	2100		
<i>34.20</i>	<i>47.55</i>	2200		
<i>35.40</i>	<i>45.40</i>	2300		
<i>37 =</i>	<i>43.00</i>	2400		

23-37' 21. 16-7" 4-7"

2 38.20	46.75	2500
39 =	2: 40.10	2540
		2600
		2700
		2800
		2900
		3000
		3100
		3200
46.00	2.46	3300
25.00	38	3400
2060	2000	3500
	2540	3600
	2740	3700
2500		3800
200		3900
2740		4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P. L. 88.1

No. 4119 Date 14 May 1912

Machine. 1 Reel. Navy

Turns 1612 Cor. + 107 Depth 1969 fms

Shot or lead 60 lb

Bottom gy. m. s.

Bottom temperature 035.5

No. of thermometer 98222 Cor. + 0.1

Corrected temperature 35.1

Air 75 Surface 72 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.00.00	10.21.20	0
	11.21	100
	11.22	200
	11.23	300
	11.24	400
	11.25	500
	11.26	600
08.00	11.27	700
09.00	11.28	800
10.00	11.29	900
11.00	11.30	1000
12.00	11.31	1100
13.00	11.32	1200
14.00	11.33	1300
15.00	11.34	1400
16.00	11.35	1500
17.00	11.36	1600
18.00	11.37	1700
19.00	11.38	1800
20.00	11.39	1900
21.00	11.40	2000
22.00	11.41	2100
23.00	11.42	2200
24.00	11.43	2300
25.00	11.44	2400

24° 06' 10" N 168° 28' 40" W

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
4500	3500	
1812	3600	
2758	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507 *Mill* *S. L. 1.1*

No. _____ Date *12 May 12*
Machine. / *Reel.* *CV 41*
 Turns _____ Cor. + _____ Depth _____
 Shot or lead *60 X*
 Bottom _____
 Bottom temperature _____
 No. of thermometer *8233* Cor. _____
 Corrected temperature _____
 Air _____ Surface _____ Drift _____
 Trawl or dredge _____

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.57.40</i>		0		
<i>58.30</i>		100		
<i>59.15</i>		200		
<i>12.00.00</i>		300		
<i>00.00</i>		400		
<i>01.00</i>		500		
<i>02.30</i>		600		
<i>03.00</i>		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2200

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
4600	3600	
152	3700	
8546	3800	
	3900	
821	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

By 170030 temperature was found.
 bearing 825 for 1000. temp. for
 my ship which was 190233
 also some data were probably
 compared and found correct.
 (continued)

No. 14174 Date 14 May 1902

Machine. / Reel.

Turns 1589 Cor. + 114 Depth 1703

Shot or lead 60

Bottom m. s. s. s. s.

Bottom temperature 35

No. of thermometer 92446 Cor.

Corrected temperature

Air 75 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

12.26.35	13.35	0
37.30	12.35	100
38.15	11.20	200
39.05	10.15	300
39.55	09.05	400
40.50	07.50	500
41.50	06.30	600
42.50	05.10	700
43.50	03.50	800
44.50	02.35	900
45.55	01.20	1000
47.00	1.00.05	1100
48.10	58.45	1200
49.20	57.30	1300
50.30	56.20	1400
51.40	55.10	1500
12.53.00	12.53.50	1589
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

24° 15' 50" N 118° 41' 54"

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
4600	246	3700	
702	70	3800	
3800	41	3900	
1000	57	4000	
22	114		

1589

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		1703 fms		
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1880.

No. *4195* Date *14 May 1880*
Sigsbee Machine. *H*/Reel. *Nav.*

Turns *1513* Cor. + *109* Depth *1622 fms.*

Shot or lead *60 Lbs.*

Bottom *wh. glob. O.*

Bottom temperature *35.*

No. of thermometer *9244* Cor.

Corrected temperature

Air *73.* Surface *74.* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>25.35</i>	<i>2.10.15</i>	0		
<i>26.25</i>	<i>09.30</i>	100		
<i>27.15</i>	<i>08.50</i>	200		
<i>28.05</i>	<i>08.15</i>	300		
<i>28.55</i>	<i>07.40</i>	400		
<i>29.50</i>	<i>07.10</i>	500		
<i>30.45</i>	<i>06.45</i>	600		
<i>31.40</i>	<i>06.25</i>	700		
<i>32.35</i>	<i>06.00</i>	800		
<i>33.30</i>	<i>5.55.15</i>	900		
<i>34.25</i>	<i>57.00</i>	1000		
<i>35.15</i>	<i>57.15</i>	1100		
<i>36.10</i>	<i>56.20</i>	1200		
<i>37.20</i>	<i>55.25</i>	1300		
<i>38.15</i>	<i>54.10</i>	1400		
<i>39.55</i>	<i>?</i> *	1500		
<i>1.51.00</i>	<i>1.52.00</i>	1600		
		1700		
		1800		
		1900		
<i>1.51.00</i>	<i>1.52.00</i>	2000		
<i>2.00.00</i>		2100		
		2200		
		2300		
		2400		

24° 17' 51" - 168° 11' 11"

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
3848	171	3600	
1510	62	3700	
2335	108	3800	
	1513	3900	
	1629	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy. 4196* Date *10 Nov. 1900*
Sigsbee Machine. #1. Reel. *1000*
 Turns *1262* Cor. + *94* Depth *1356 fms.*
 Shot ~~or lead~~ *60 lbs.*
 Bottom *red. glob. co.*
 Bottom temperature *35.5*
 No. of thermometer *9244* Cor.
 Corrected temperature
 Air *74* Surface *74* Drift
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>2.22.00</i>	<i>2.06.20</i>	0		
<i>23.55</i>	<i>55.10</i>	100		
<i>24.50</i>	<i>54.00</i>	200		
<i>26.00</i>	<i>52.15</i>	300		
<i>27.45</i>	<i>51.30</i>	400		
<i>29.10</i>	<i>50.20</i>	500		
<i>30.35</i>	<i>49.15</i>	600		
<i>32.00</i>	<i>48.05</i>	700		
<i>33.40</i>	<i>46.55</i>	800		
<i>35.10</i>	<i>45.45</i>	900		
<i>36.45</i>	<i>44.40</i>	1000		
<i>38.10</i>	<i>43.30</i>	1100		
<i>39.00</i>	<i>42.20</i>	1200		
<i>2.52.55</i>	<i>2.51.00</i>	<i>1262</i>		
		<i>1300</i>		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
3848	171	3600	
1262	77	3700	
<u>2586</u>	<u>98</u>	3800	
	1262	3900	
	<u>1356 fms.</u>	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507
~~Hydrotachium~~

P.L. = 6.7

No. *Hy. 4197*. Date *14 May '02*.
Sigsbee Machine *X* Reel. *Navy*
 Turns *1595* Cor. + *114* Depth *1709 fms.*
 Shot or lead *60 lbs.*
 Bottom *wh. glob. gy.*
 Bottom temperature *35.8*
 No. of thermometer *92446*. Cor.
 Corrected temperature
 Air *74* - Surface *74* - Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-47.50</i>	<i>4-24.30</i>	0		
<i>50.00</i>	<i>23.30</i>	100		
<i>51.30</i>	<i>22.30</i>	200		
<i>52.20</i>	<i>21.30</i>	300		
<i>53.10</i>	<i>20.25</i>	400		
<i>54.15</i>	<i>19.20</i>	500		
<i>54.55</i>	<i>18.10</i>	600		
<i>55.50</i>	<i>17.10</i>	700		
<i>56.50</i>	<i>16.05</i>	800		
<i>57.50</i>	<i>15.00</i>	900		
<i>58.50</i>	<i>13.55</i>	1000		
<i>59.50</i>	<i>12.45</i>	1100		
<i>4-00.55</i>	<i>11.40</i>	1200		
<i>02.05</i>	<i>10.30</i>	1300		
<i>03.35</i>	<i>08.20</i>	1400		
<i>04.10</i>	<i>07.05</i>	1500		
<i>05.05</i>	<i>4-06.35</i>	<i>1595</i> 1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
38.48	171	3600	
15.95	57	3700	
2253	114	3800	
	1575	3900	
	1709 fms.	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

10.1

597.

No. *H/ 4198* Date *1st May 12*

Machine. Reel.

Turns *1709* Cor. + *114* Depth *1709*

Shot or lead *60*

Bottom *wh glt oz*

Bottom temperature *35.10*

No. of thermometer *92446* Cor.

Corrected temperature

Air *74* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
5.02.10	38.10	0		
03.15	36.55	100		
03.50	35.50	200		
04.40	34.50	300		
05.35	33.45	400		
06.30	32.40	500		
07.30.20	31.30	600		
08.25	30.20	700		
09.25	29.15	800		
10.30	28.10	900		
11.30	27.10	1000		
12.35	26.05	1100		
13.40	25.00	1200		
14.40	24.00	1300		
15.50	23.10	1400		
16.55	22.00	1500		
18.00	21.00	1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

24° 22' 40" N 168° 25' 55" W

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
3548	17.1	3500	
1645	57	3600	
1542	11.4	3700	
	117.5	3800	
	1709	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

14.1

No. 41 Date 14th May 02.

Machine # / Reel. 14.1

Turns 1430 Cor. + 104 Depth 1534 fms

Shot or lead 60 lbs

Bottom Mang Part

Bottom temperature 35.2

No. of thermometer 72445 Cor.

Corrected temperature

Air 73 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

6-12.40 46.30 0

13.45 45.35 100

14.50 44.35 200

15.45 43.30 300

16.40 42.25 400

17.45 41.20 500

18.50 40.15 600

20.00 39.10 700

21.10 38.05 800

22.20 37.00 900

23.30 36.00 1000

24.50 34.50 1100

26.00 33.35 1200

27.10 32.20 1300

28.20 31.00 1400

28.50 6-30.20 1430

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

24° 21' 40" N 168° 30' 10" W

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
3845	171	3600	
1430	67	3700	
2415	104	3800	
	1430	3900	
	1534	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Oct/Nov. 18.1

No. 44 4200 Date 14 May 02.

Machine. #1 Reel. Navy.

Turns 1600 Cor. + 114 Depth 1714 fms

Shot or lead 36 lbs.

Bottom Sh. G. S.

Bottom temperature

No. of thermometer 92446 Cor.

Corrected temperature

Air 72 Surface 72 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

7-25-45	07.40	0		
30.00	06.30	100		
31.30	07.20	200		
32.30	06.05	300		
33.30	06.50	400		
34.20	03.11	500		
35.30	07.31	600		
36.40	01.21	700		
37.50	00.10	800		
39.05	59.00	900		
40.20	57.40	1000		
41.35	56.21	1100		
42.50	55.20	1200		
44.05	54.10	1300		
45.25	52.50	1400		
46.50	51.30	1500		
48.20	7.14.40	1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

24° 20' 40" N 118° 34' 25" W

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
3845	171	3600	
1600	57	3700	
2248	114	3800	
	1600	3900	
	1714	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Reg. 26.1

No. 14 Date 17 May 1902

Machine. / Reel.

Turns 1709 Cor. + 121 Depth 1830

Shot or lead 460

Bottom M. S. G.

Bottom temperature 35.8

No. of thermometer 92446 Cor.

Corrected temperature

Air 72 Surface 72 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9.25.40	10.06.30	0		
26.55	05.20	100		
27.50	04.10	200		
28.45	03.16	300		
29.40	02.00	400		
30.35	10.00.40	500		
31.30	59.40	600		
32.25	58.40	700		
33.20	57.40	800		
34.15	56.00	900		
35.10	54.50	1000		
36.05	53.40	1100		
37.00	52.30	1200		
37.55	51.20	1300		
38.50	50.00	1400		
39.45	48.50	1500		
40.40	47.40	1600		
41.35	46.00	1700		
42.30	44.00	1709		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

24 12' 55 21 169 32' 21" W

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
2548	171	3500	
17 09	50	3600	
2139	121	3700	
		3800	
	17 09	3900	
	1830	4000	✓

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 1202 Date 14 May 1902
 Machine. Reel.
 Turns 1238 Cor. + 111 Depth 1649 fms
 Shot or Lead 460
 Bottom m. silt
 Bottom temperature 21.2
 No. of thermometer 92446 Cor.
 Corrected temperature
 Air 72 Surface 72 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.50.30	12.13.0	0		
11.51.00	11.55.0	100		
11.51.30	10.55.0	200		
11.52.00	10.00.0	300		
11.52.30	9.05.0	400		
11.53.00	8.10.0	500		
11.53.30	7.15.0	600		
11.54.00	6.20.0	700		
11.54.30	5.25.0	800		
11.55.00	4.30.0	900		
11.55.30	3.35.0	1000		
11.56.00	2.40.0	1100		
11.56.30	1.45.0	1200		
11.57.00	0.50.0	1300		
11.57.30	55.0	1400		
11.58.00	50.0	1500		
11.58.30	45.0	1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

24° 12' 35" N 168° 43' 15" W

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
3848	771	3500	
1538		3600	
2310	111	3700	
	1238	3800	
	1549	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns 2418 Cor. + 150

Depth 2568 fms.

Shot or lead 60 lbs.

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2. 27.00	4. 36.00	0
30.30	34.20	100
31.25	33.45	200
32.25	32.55	300
33.30	31.50	400
34.25	30.25	500
35.40	29.10	600
36.55	28.00	700
38.05	26.50	800
39.10	25.40	900
40.25	24.25	1000
41.05	23.15	1100
42.20	22.00	1200
43.45	20.05	1300
44.25	19.20	1400
45.55	18.25	1500
47.20	17.00	1600
48.50	16.00	1700
50.10	15.00	1800
51.40	14.05	1900
53.05	13.00	2000
54.30	12.40	2100
55.00	11.45	2200
57.20	10.20	2300
1. 01.00	9.42.40	2400
2. 01.20	4.50.15	2418

24.11.21 169° 10' 40"

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
24.11	17.1	3700	
24.18	17.1	3800	
1430	17.50	3900	
	24.1	4000	
	25.6		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Station 11.1
 No. *4204* Date *May 11.1*
Sigsbee Machine. # *1* Reel. *Hand*
 Turns *2510* Cor. + *153* Depth *2663 fms*
 Shot or lead *60 lbs*
 Bottom *h. M.*
 Bottom temperature *35.0*
 No. of thermometer *8246* Cor.
 Corrected temperature
 Air *75* Surface *74* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11:06.45</i>	<i>03.50</i>	0		
<i>07.40</i>	<i>02.50</i>	100		
<i>08.35</i>	<i>01.45</i>	200		
<i>09.30</i>	<i>12:00.40 P.M.</i>	300		
<i>10.35</i>	<i>59.30</i>	400		
<i>11.40</i>	<i>58.25</i>	500		
<i>12:45</i>	<i>57.20</i>	600		
<i>13.50</i>	<i>56.10</i>	700		
<i>15 =</i>	<i>55 =</i>	800		
<i>16.10</i>	<i>54 =</i>	900		
<i>17.20</i>	<i>52.50</i>	1000		
<i>18.50</i>	<i>51.45</i>	1100		
<i>20.10</i>	<i>50.40</i>	1200		
<i>21.35</i>	<i>49.25</i>	1300		
<i>23 =</i>	<i>48.10</i>	1400		
<i>24.20</i>	<i>46.45</i>	1500		
<i>25.40</i>	<i>45.30</i>	1600		
<i>27.05</i>	<i>44.15</i>	1700		
<i>28.20</i>	<i>43 =</i>	1800		
<i>29.45</i>	<i>41.35</i>	1900		
<i>31.05</i>	<i>40.15</i>	2000		
<i>32.25</i>	<i>38.55</i>	2100		
<i>33.50</i>	<i>37.45</i>	2200		
<i>35.10</i>	<i>36.15</i>	2300		
<i>36.35</i>	<i>34.55</i>	2400		

24° 34' 24" N 170° 07' W

35.20	33.20	2500
38.10	11-33.20	2600
		2700
		2800
		2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
38.48	17.1	3700
2510	18	3800
1338	153	3900
	2510	4000
	2663	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

* Set, not in back 6 min.

No.

2930 D

Date

15 May 82

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

did not sound

Bottom temperature

No. of thermometer

9244

Cor.

Corrected temperature

Air

74

Surface

74

Drift

Trawl or dredge

1/2 m. dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1st Surface haul:

6 ostracium galeodon;
 2 fish unidentified;
 1 porpita; many diphy-
 opsia bells; many sagitta;
 several pteronemina; several
 sphaerocorum; many
 halobates; blue and
 pink copepods - not
 in quantity.

2nd Surface haul:

Increase 3 or 4 times
 5 ostracium galeodon;
 1 cypselurus; 1 exocoetidae;
 1 naucratis; periola;
 yg. fish unidentified;
 heteropoda; diphysopsis;
 medusae; sphaerocorum;
 halobates; few sagitta;
 pelpa; few pteropods;
 crustacea in large
 amount.

7

0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400

Surface haul.
 6:37 6:47
 6:51 7:01
 7:05 7:15
 7:16 7:26
 7:27 7:41
 7:45 7:55

3rd Surface haul:
 Increased quantity
 Messy stomatopods (1st
 appearance); several ad-
 vanced unidentified fishes
 more ostracium; more
 more pteropods; 1
 medusa. Quantity is
 largely due to small
 crustacea. Other
 things as noted before.
 2 or 3 myctopham.

25° 07' N. 170° 50' W.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
10	3600	
	3700	
	3800	
10	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
0				
25				
50				
100				
200				
300	4 th Surface haul: About same amt. no special change. 2 kinds octopus; numerous pteropods; many stomatopods; no ostracium; mainly crustacea.			
400				
500				
600				
700				
800	5 th Surface haul: Decided falling off. Many myctophum; flying fish; medusa; many calappa-like forms; fewer copepods.			
900				
1000				

REMARKS:

6th haul: About as 5th haul.
2 larval peristedion; 1 pegasus;
fewer copepods.

12.2 = 64.2

607.

No. 4225 Date 15 May 02

Sigsbee Machine. Reel. 1000

Turns 1184 Cor. + 89 Depth 1273 fms.

Shot or lead 60

Bottom m. l. g. s. oz.

Bottom temperature 35.8

No. of thermometer 92446 Cor.

Corrected temperature

Air 74 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8. 01.30	8. 31.20	0		
02.35	30.00	100		
03.40	28.40	200		
04.45	27.20	300		
05.50	26.00	400		
06.55	24.40	500		
08.00	23.20	600		
09.05	22.00	700		
10.10	20.40	800		
11.15	19.20	900		
12.20	18.00	1000		
13.25	16.40	1100		
8. 14.30	8. 15.20	1184		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

25° 10' 26" 170° 52' 54"

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
3848	171	3700	
1184	82	3800	
2664	1189	3900	
	1236ms	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3931 Date 15 May 12

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

N 50 W.

Trawl or dredge 2 Surface

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

11.01

11.11

10
100

11.20

11.10

11.16

11.26

10
300

11.24

11.24

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

1st haul = as a

few, meager.

6 kinds fishes, 1 porpita;

balobates; larval crabs

abundant; small

Atomatopoda (2 sp.);

Cephalopod (invertebrate);

few small phronima;

mysis, few; sphaero-

zoum; diphyzoides;

small ctenophores, small

fish eggs; Copepods,

scant and small;

phronimidae;

sagitta.

2nd haul = same

as last. 6 kinds

fishes (4 not in

last haul); few

balobates; several

porpita; salpa;

larval crabs;

Atomatopoda, 2 kinds

Cephalopoda; annelid;

sphaerocoum; diphy-

zoides; ctenophores

small fish eggs;

few minute cope-

pods; sagitta;

macrurus; few

small phronima.

Note = Fish-eggs hatched over-
night in dish.

25° 27' N. 171° 08' W.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Light breeze from East.</i>			
50	<i>Clear and (cloudy, light, breeze from East.)</i>			
100	<i>Light breeze from East.</i>			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *44* Date *15 May '02*Machine *Reel*Turns *210* Cor. + *18* Depth *228 fms.*Shot or lead *60 lb.*Bottom *fl. m. R. S. & R.*Bottom temperature *51.*No. of thermometer *9244* Cor.

Corrected temperature

Air *74.* Surface *75.* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.51.30</i>	<i>11.58.20</i>	0		
<i>52.40</i>	<i>57.00</i>	100		
<i>53.55</i>	<i>58.30</i>	200		
<i>11.54.00</i>	<i>11.55.20</i>	<i>210</i>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

15° 25' 28" N. 171° 11' W.

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
3848	171	3600	
210	153	3700	
3628	18	3800	
	210	3900	
	228	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

C. L. 4.5

No. 44 4207 Date May 16 '02

Machine. #1 Reel. Heavy

Turns 930 Cor. + 74 Depth 1004 fms.

Shot or lead 35 lbs.

Bottom gy. M. S.

Bottom temperature 36.3°

No. of thermometer 92446 Cor.

Corrected temperature

Air 74 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3.30.10	26.10	0		
01.50	27.50	100		
02.55	23.30	200		
04.05	22.05	300		
05.05	20.40	400		
06.10	19.20	500		
07.20	17.55	600		
08.35	16.30	700		
09.55	15.10	800		
11.10	13.50	900		
3.11.40	13.10	930		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

29° 42' N. 171° 29' W.

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
3848	171	3600	
930	97	3700	
2918	74	3800	
	930	3900	
	1004	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 395

Date July 16-1902

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 74

Surface 73

Drift N 50° W.

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1st Surface haul =
 Large quantity;
 almost wholly of 1
 kind of *macrurus*;
 also 2 kinds of *myc-*
tophium; unknown
 fishes; 1 *calpa*; 1
ctenophor; few *diphy-*
opsis; few *halobates*;
 1 or 2 medusae; few
copepods.

2nd Haul =

Quantity 1/5 last.

1 *sp. macrurus* make
 most of catch. many
myctophum; other
 small fishes; *halo-*
bates; *squilla*; *diphy-*
opsis; few *macrurus*;
 other species; few
copepods; ? fish eggs;
 egg. crabs

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Surface haul ✓

4-13 4. 4.23

4.27 4. 4.30

4.41 4. 4.44

4.47 4. 4.50

4.53 4. 4.56

4.59 4. 5.02

5.05 4. 5.08

5.11 4. 5.14

5.17 4. 5.20

5.23 4. 5.26

5.31 4. 5.34

5.37 4. 5.40

5.46 4. 5.49

5.53 4. 5.56

6.01 4. 6.04

6.07 4. 6.10

25° 45' N. 171° 52' W.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
10	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
10				
25				
10				
50				
100				
200				
300				
400				
500	<p>4th Surface haul = Very small quantity. As above, with addition of many small fishes of the day. no megatophum.</p>			
600				
700				
800				
900				
1000				

REMARKS:

5th haul = not recorded.

No. *2933* Date *16 Mar 1902*

Tanner Machine. — Reel. —

Turns *22* Cor. + *1* Depth *23*Shot or lead *26 lb*Bottom *wh. S. bk. sh.*Bottom temperature *74°*No. of thermometer *92446* Cor. —

Corrected temperature

Air *72°* Surface *75°* Drift *1 1/2'*Trawl or dredge *6' Olin*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.22.00</i>	<i>8.25.10</i>	0	<i>5.22.00</i>	<i>8.25.10</i>
<i>8.22.10</i>	<i>8.22.00</i>	100	<i>2.22.00</i>	<i>8.22.00</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, S 79° 30' E, 3 8/10

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Frame and Tangles lost; Thread
of rope lost & dropped;
Nothing caught.

No. *Hy. 4228* Date *16 Feb 02*

Tanner Machine. — Reel.

Turns *18* Cor. + *1* Depth *19 fms.*Shot or lead *26 lbs*Bottom *ml. S. bkn. Sh.*Bottom temperature *74.° -*No. of thermometer *92446* Cor. *°*

Corrected temperature

Air *76.* Surface *75.* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

18

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laysan Light, 8811 E, 570

OK
HOD
in

76
18
—
47.8

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. = 26.6

507.

No. *Dr. 3934* Date *16 Mar '02*
Tanner Machine. Reel. *-*

Turns *27* Cor. + *1* Depth *28 fms.*

Shot or lead *26 lbs.*

Bottom *wh. S. brk. Sh.*

Bottom temperature *75.2*

No. of thermometer *92016* Cor. *{ N 73° W*

Corrected temperature *{ 1 2/10*

Air *-* Surface *-* Drift *-*

Trawl or dredge *28 ft. beam trawl*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>9.16.40</i>	<i>9.18.20</i>	0	<i>9.18.40</i>	<i>9.18.40</i>
<i>9.17.00</i>	<i>9.18.40</i>	100	<i>23.30</i>	<i>9.18.40</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Sargassum Light. S 80° 30' E, 6 1/10'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
27 + 1:20	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Much fine broken shell + few fragments of corallines, sponges, hydroids, and bryozoa.

No. 5, 305 Date

Date _____

Tanner Machine. - Reel.

Turns 1 Cor. + 2 Depth 17 fms.

Shot or lead 260 lbs.

Bottom W.L. 2, Lake, S. 2, 100 ft.

Bottom temperature 72.1

No. of thermometer 92446. Cor.

Corrected temperature

Air	76.	Surface	75	Drift
-----	-----	---------	----	-------

~~Trawl or dredge~~ *Hydr. drag* - *Hydr. drag*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9. 4. 10	42. 20	0	9. 50. 15	10. 12. 20
8. 00	40. 00	100	5. 40	10. 10. 20
		200	9. 55. 25	
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light. S 79° 30' E, 7 ³/₁₀'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Oyster dredge: 1 large red starfish; 1 clype- astrid; number of small coral rocks covered with corallines, sponges, worm tubes, hydroids. Containing = few gephyreans, few lamellibranchs, and ophiurans, 3 kinds of crustacea; 1 chiton.			
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *5936* Date *Feb 22**Tanner* Machine. — Reel. —Turns *76* Cor. + *3* Depth *79*Shot or lead *26 lbs*Bottom *fine, fm. sh. sl.*Bottom temperature *68.2*No. of thermometer *92446* Cor.

Corrected temperature

Air *84* Surface *75* Drift *32° W*Trawl or dredge *Shank Dredge*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*10.22.00**10.22.00**0**10.22.00**10.22.00**21.00**21.00**100**10.22.00**10.22.00**200**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400**Also taken**10.22.00**Surface net**10.48.00 10.56.00*

1/2 p.m. 8/10/10, 084° E., 17 5/10'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Light S. E. air, Long bank, clear and cloudy, calm.			
50				
100	Ship's dredge.			
200				
300	1/2 peck rounded coralline - covered nodules; 4 kinds of hydroids; several kinds coral; 1 urchin; 2 chryseastrids; 5 crabs; few worms; 1 chiton; several sponges; 2 kinds gastropods.			
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Surface net catch not recorded.

No. *3927* Date *16 May '02.*

Tanner Machine. - Reel. -

Turns *25* Cor. + *5* Depth *30 fms*~~Shot or lead~~ *26 lbs.*Bottom *wh. S. pnl. Sh.*Bottom temperature *63.1* -No. of thermometer *92446*. Cor.

Corrected temperature

Air *79* Surface *78* Drift*839° W*Trawl or dredge *Shed Dredge*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.57.50 *11.02.50*

0

11.05.00 *11.33.40*

100

08.00 ***27.20**10.59.05* *11.00.15*

200

11.11.30

300

11.31.30

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

* *Drifting in*
Settled from this time
Since landing on.

** *Wind set*
Wind to rain.

Long. 8° 15' E. 87° 10' 7 1/10'

OK
1100
1102

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Ship's dredge -			
100	Smooth bottom; dead-shell			
200	bank. 2 ophiurans (2 sps);			
300	1 small starfish; 1 hermit crab;			
400	1 crab; 1 solitary yellow coral;			
500	1 branching coral; worm tubes			
600				
700				
800				
900				
1000				

REMARKS:

~~Not recorded.~~

No. *3938*Date *15 May 1882*

Tanner Machine. Reel. -

Turns *142* Cor. + *6*Depth *48 fms*~~Shot or lead~~ *26 lbs.*Bottom *wh S. bk Sh.*Bottom temperature *60.3°*No. of thermometer *8244*

Cor.

Corrected temperature

Air *74°*

Surface

Drift

Trawl or dredge *5 1/2' Blake with**tail weight*

Am. SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*11.26.30**42.50*

0

*11.45.30**27 =**11.27.30**40.40*

100

*48.50**22.30**11.28.30**39.30*

200

*52.15**12-12.10*

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laurel 2° 49' N, 88° 30' E, 7 8/10'

OK
1000

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

496
142
354

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Dredge haul =			
100	1 large starfish; 2 kinds hermits;			
200	anemone attached to shell of large			
300	hermit; 2 munida; 2 prawns;			
400	1 antedon; 1 nudibranch; 1 octopus;			
500	2 peristedion - sp. ?; 3 mallophys			
600	spiniger; 2 plata platophrys;			
700	1 (?) worm tube.			
800				
900				
1000	2 remora taken from sharks.			

REMARKS:

No. *5739* Date *May 16 1902*

Tanner Machine. — Reel.

Turns *157* Cor. + *6* Depth *163 fms*Shot or lead *26 lbs.*Bottom *wh S. gy S. R*

Bottom temperature

No. of thermometer *92446* Cor.

Corrected temperature

Air *77* Surface *76* Drift *1.5 N 62 E*Trawl or dredge *5' beam trawl, 1/2 mile*

SOUNDING WIRE.

DOWN.

UP.

*12-27.30**35.50**30.55**33.50**31.30**32.20**32.15**31.50**33.00**31.25**33.45**31.00**34.30**30.45**35.15**30.30**36.00**30.15**36.45**30.00**37.30**29.45**38.15**29.30**39.00**29.15**39.45**29.00**40.30**28.45**41.15**28.30**42.00**28.15**42.45**28.00**43.30**27.45**44.15**27.30**45.00**27.15**45.45**27.00**46.30**26.45**47.15**26.30**48.00**26.15**48.45**26.00**49.30**25.45**50.15**25.30*

TURNS.

0

100

157

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

DREDGE ROPE.

DOWN.

UP.

*12-46.50**50.50**40.00**54.40**35.10**59.30**1-30.10*

Surface Light 699 30' E, 8' 10'

6170

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

with Alexander's trace beam

496
157
339

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tanner Trawl - 1 Ostrea sp. ?; 3 kinds hydroids; 2 kinds sponges; several crabs (3 kinds); 1 caprellid.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Trawl came up badly
torn. Lost frame
and Alexander trace
beam, Appear. Glass
float and on trail
weight

No. *3940* Date *May 16, 1902*

Machine. Reel.

Turns *57* Cor. + *2* Depth *59 fms*

Shot or lead

Bottom *wt. S. gy. sh.*Bottom temperature *70*No. of thermometer *72446* Cor.

Corrected temperature

Air *81* Surface *76* Drift *331°*Trawl or dredge *5 1/2 Blake with apron*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*7: 46.50**49.10**0**1.56³⁰**24.40**47.20**45.30**77**2.00**2: 25.10**also marks and**200**in No. 3940**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400*

Super. 3 Lgt. 5448.7'

	2400	
	2500	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
496	3600	
57	3700	
439	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Blake trawl = 1/2 peck coralline nodules; 1 large starfish; several serpent stars; many hydroids (3 kinds); several eraba (4 kinds); 1 caprella; sev'l platophrys (2 kinds); 1 tetrodon; 1 (?) centricarus.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *B 3941* Date *May 16. 1912.*

Machine. Reel.

Turns *67* Cor. + *3* Depth *70 fms*Shot or lead *36 lbs.*Bottom *sh. ch. m. s. m. m. m.*Bottom temperature *68.5*No. of thermometer *92446* Cor.

Corrected temperature

Air *51* Surface *76* Drift *5 74-71*Trawl or dredge *8' beam trawl*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>2-27.05</i>	<i>29.30</i>	<i>0</i>	<i>2-25.50</i>	<i>21.30</i>
<i>27.40</i>	<i>2-28.40</i>	<i>80</i>	<i>53.30</i>	
<i>also marked</i>		<i>90</i>	<i>54.40</i>	<i>3-15.15</i>
<i>sub A. Sta</i>		<i>300</i>		
<i>B 3940</i>		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Lat $34^{\circ} 10' N$ Long $88^{\circ} 17' E$

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
196	3700	
67	3800	
429	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Water haul, probably not on bottom, no indication of it.

No. *5 3942* Date *May 16 1902*

Tanner Machine. — Reel.

Turns *140* Cor. + *6* Depth *146 fms*~~Shot or lead~~ *26 lb*Bottom *W.R.S. bk. Sl.*Bottom temperature *52.0*No. of thermometer *72445* Cor.

Corrected temperature

Air *77* Surface *76* Drift *8750W*Trawl or dredge *11 ft. beam trawl*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

3-23.20 *24.10**0**3.31* *4.15**24.10* *26.20**100**3.50* *15.20**24.40* *25.40**140**4.20* *11.45**200**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400**3.40* *3.50*

Daylight 889° E. 7 3/10'

496
140
356

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Tanner trawl
1 peristodion ? sp; 2 aspaena
remigera.

No. 5912

Date 16

1902

Machine. + Reel.

Turns 205

Cor. +

17

Depth 222

Shot or lead

Bottom fine Wk

Bottom temperature

No. of thermometer 92446

Cor.

Corrected temperature

Air 76

Surface

Drift 1

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

7.37.00 6.41.15
 43.20 36.30
 47.10 32.10
 50.50 27.20
 55.10 22.30
 4.57.10
 5.12.00 5.17.15
 (= down 20 min.)

Longer 70 fath, N 89° E. 8 1/10'

6
1
1

2648 17.1
201 17.4
3100 17
220

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200	White sand			
300	black line			
400	line in the north, and			
500	down to the bottom			
600	down to the bottom			
700	down to the bottom			
800	down to the bottom			
900	Place down to the bottom			
1000	down to the bottom			

REMARKS:

Tanner Trawl =
1 scopaena pennigera; 1 munda;
1 pennatulid; 1 prawn.

No.

Date

Machine.

Reel.

Turns 91 Cor. +

Depth 106 fms

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Layard Light, No. 8, 7/10

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *1000* Date *17 May 1902*Machine. *1* Reel. *Kany type*

Turns Cor. + Depth

Shot or lead *Cor. + 10 lb.*Bottom *Green mud, cor.*Bottom temperature *At 10 fms. 40.0*No. of thermometer *5000* Cor. conditionsCorrected temperature *40-50 lb. weight*

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>100</i>	<i>101</i>	0	<i>1900</i>	<i>1940</i>
<i>100</i>	<i>101</i>	100	<i>50</i>	<i>1992</i>
<i>200</i>	<i>201</i>	200	<i>2000</i>	<i>2044</i>
<i>300</i>	<i>302</i>	300	<i>50</i>	<i>2096</i>
<i>400</i>	<i>403</i>	400	<i>50</i>	<i>2148</i>
<i>500</i>	<i>504</i>	500	<i>50</i>	<i>2200</i>
<i>600</i>	<i>605</i>	600	<i>2000</i>	<i>2252</i>
<i>700</i>	<i>706</i>	700	<i>50</i>	<i>2304</i>
<i>800</i>	<i>807</i>	800	<i>2300</i>	<i>2356</i>
<i>900</i>	<i>908</i>	900	<i>50</i>	<i>2408</i>
<i>1000</i>	<i>1,009</i>	1000	<i>2400</i>	<i>2460</i>
<i>1100</i>	<i>1,110</i>	1100	<i>50</i>	<i>2512½</i>
<i>1200</i>	<i>1,211</i>	1200	<i>2500</i>	<i>2565</i>
<i>1300</i>	<i>1,312</i>	1300	<i>50</i>	<i>2617½</i>
<i>1300</i>	<i>1,320</i>	1400		<i>2670</i>
<i>50</i>	<i>1371</i>	1500	<i>50</i>	<i>2723</i>
<i>1400</i>	<i>1423</i>	1600	<i>2700</i>	<i>2776</i>
<i>50</i>	<i>1474</i>	1700	<i>50</i>	<i>2829</i>
<i>1500</i>	<i>1526</i>	1800	<i>2800</i>	<i>2882</i>
<i>50</i>	<i>1577</i>	1900	<i>50</i>	<i>2935</i>
<i>1600</i>	<i>1629</i>	2000	<i>2900</i>	<i>2988</i>
<i>50</i>	<i>1680</i>	2100	<i>50</i>	<i>3041</i>
<i>1700</i>	<i>1732</i>	2200	<i>3000</i>	<i>3094</i>
<i>50</i>	<i>1783</i>	2300	<i>50</i>	<i>3148</i>
<i>1800</i>	<i>1835</i>	2400	<i>3100</i>	<i>3202</i>
<i>50</i>	<i>1886</i>		<i>50</i>	<i>3256</i>

37	3310	2500	40.00	41.10
80	3344	2600	50	42.24
37	3417	2700	41.00	42.74
50	3572	2800	50	43.24
37	3520	2900	43.00	43.74
50	3530	3000	50	44.02
35	3624	3100	43.00	45.04
50	3681	3200	50	45.54
36	3707	3300	44.00	46.10
50	3742	3400	50	46.64
37	3850	3500	46.00	47.20
50	3884	3600	50	47.74
35	3920	3700	46.00	48.54
50	4012	3800	50	48.84
37	4062	3900	47.00	49.44
50	4125	4000	50	49.94

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	48.00	5054		
50	50	5104		
100	48.60	5120		
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

New off Nos two pump out, which were also met by boat, and over board and bottle -
 Filled in 1.50 p.m. new cage, which was put on in 3. p.m., next to the bed of reef. Boats thick with fish (boat & fallow),

0. L. 378

No. *H4* 4210 Date *May* 18th 02.

Tanner Machine. Reel.

Turns *46* Cor. + *2* Depth *48* fms

Shot or lead *36* lbs.

Bottom *fm wh S. G. S.*

Bottom temperature *70.5°*

No. of thermometer *92446* Cor.

Corrected temperature

Air *70* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

7-49.50
50.10

51.50
51.10

46
0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Lantern Light. N 49° E. 5 1/10'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
4196	3400	
46	3500	
40	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 24211 Date 1911
 Machine. 1 Reel. 1
 Turns 659 Cor. + 36 Depth 725.7m
 Shot or lead 36
 Bottom R.
 Bottom temperature 17.2
 No. of thermometer 72460 Cor.
 Corrected temperature
 Air 70 Surface 74 Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3

0

4.20

100

5.20

200

36.35

300

4.10

400

5.18

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Layman J. Right. 148° E., 7⁸/₁₀'

812
J. (R)

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

~~2500 2500~~
~~3600 3600~~
~~3700 3700~~
~~3800 3800~~
~~3900 3900~~
~~4000 4000~~

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4212* Date *17 July 1902*
Sigsbee Machine. Reel. *1154*
 Turns *551* Cor. + *55* Depth *606 fms*
 Shot or lead *35 lb*
 Bottom *W. S. bk. sh.*
 Bottom temperature *28.8*
 No. of thermometer *921115* Cor.
 Corrected temperature
 Air *73* Surface *74* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.16.40</i>	<i>9.30.50</i>			
<i>17.50</i>	<i>29.35</i>	50		
<i>18.50</i>	<i>28.15</i>	100		
<i>19.50</i>	<i>27.00</i>	200		
<i>20.55</i>	<i>26.00</i>	300		
<i>21.50</i>	<i>24.50</i>	400		
<i>22.40</i>	<i>24.00</i>	500		
		<i>551</i>		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Report of Light, 1890 E., 7 1/10

OK
HCC

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

107.
H. 1111

S. 4/2 8

No. 4213 H. Date 1/2 1892
Machine. Reel.

Turns 429 Cor. + 43 Depth 472 fms

Shot or lead 35 lb.

Bottom G. S. L. S.

Bottom temperature 40.6

No. of thermometer 92446 Cor.

Corrected temperature

Air 72 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9.55.00 10.02.30
5.00 01.15
10.10 10.00.10
12.20 08.50
14.30 07.30
16.45 07.15.10

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

Layman 30 Light / 04 67° 30' E. 2.

O.K.
J.H.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Stinky

C. of 43.8.

No. 3354

Date 19th May 1912

Machine. Reel.

Turns 230 Cor. + 23

Depth 253 *ms*

Shot or lead 35#

Bottom fine wh. s. 4

Bottom temperature

No. of thermometer 92446 Cor.

Corrected temperature

Air 75 Surface 74 Drift (N 50° E) 1 1/2

Trawl or dredge 8

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
10.21.10	10.28.40	0	10.26.20	1.00.00
22.25	27.50	100	41.00	
3.30	26.10	200		
24.00	25.30	230		1.00.00
		300		1.11.00
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lat. 24° 77' 0" E, 86° 10'

OK
31

41866 262
230 37
6036 41
230
255

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Water - Fair - no indication
of being done more than
rough thermograph that only
on side thermograph.

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
11.57.00		0	11.57.00	1.25.00
		100		18.00
		200		17.00
34.40	43.00	300	12.03.20	10.00
36.10		400		
37.45	20.30	500	11.30	1.25.00
11.38.20	11.27.50	600	11.30	1.25.00
		700		57.00
		800	12.34.20	12.49.00
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Al. ...
end of
No. 3944.

Bay of Bengal, N 81° E., 9 ²/₁₀'

O/C
H.C.B.
/

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Water haul; no indication
of having been on bottom.

No. *Hy. 4214* Date *19 May '02**Sigsbee* Machine. # *1* Reel. *Navy*Turns *1040* Cor. + *100* Depth *1140 fms.*Shot or lead *36 lbs.*Bottom *fine m. S.*Bottom temperature *35.9*No. of thermometer *92446* Cor.

Corrected temperature

Air *74* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1. 31.10</i>	<i>1. 59.15</i>	0		
<i>32.00</i>	<i>58.10</i>	100		
<i>33.00</i>	<i>57.00</i>	200		
<i>34.10</i>	<i>55.50</i>	300		
<i>35.20</i>	<i>54.40</i>	400		
<i>36.55</i>	<i>53.25</i>	500		
<i>38.25</i>	<i>52.15</i>	600		
<i>40.05</i>	<i>51.05</i>	700		
<i>41.40</i>	<i>49.55</i>	800		
<i>42.15</i>	<i>48.45</i>	900		
<i>44.50</i>	<i>47.35</i>	1000		
<i>1. 45.30</i>	<i>1. 46.30</i>	1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Also marks end
of
Dr. 3945.*

Laysan Light, N 77° E, 10.

OK
H.C.
/

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
4860	3700	
1040	3800	
3820	3900	
	4000	

260
160
100
1040
1142

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*No.**Date**Machine.**Reel.**Turns**Cor. +**Depth**Shot or lead**Bottom**Bottom temperature**No. of thermometer**Cor.**Corrected temperature**Air**Surface**Drift**Trawl or dredge*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

21-60

4-35

27-

30-60

52-35